

# Decoding METAR

**Objective:** Decode 5 METAR observations with no errors as determined on a go/no go checklist.

## Decode METAR observations to include:

- Type observation, date, time, and recognizes hourly and special.
- Wind direction, speed, and character.
- Visibility, runway visual range (RVR), present weather.
- Sky condition
- Temperature and dew point
- Altimeter (ALSTG), sea level pressure (SLP), trend, and amount of change
- Remarks

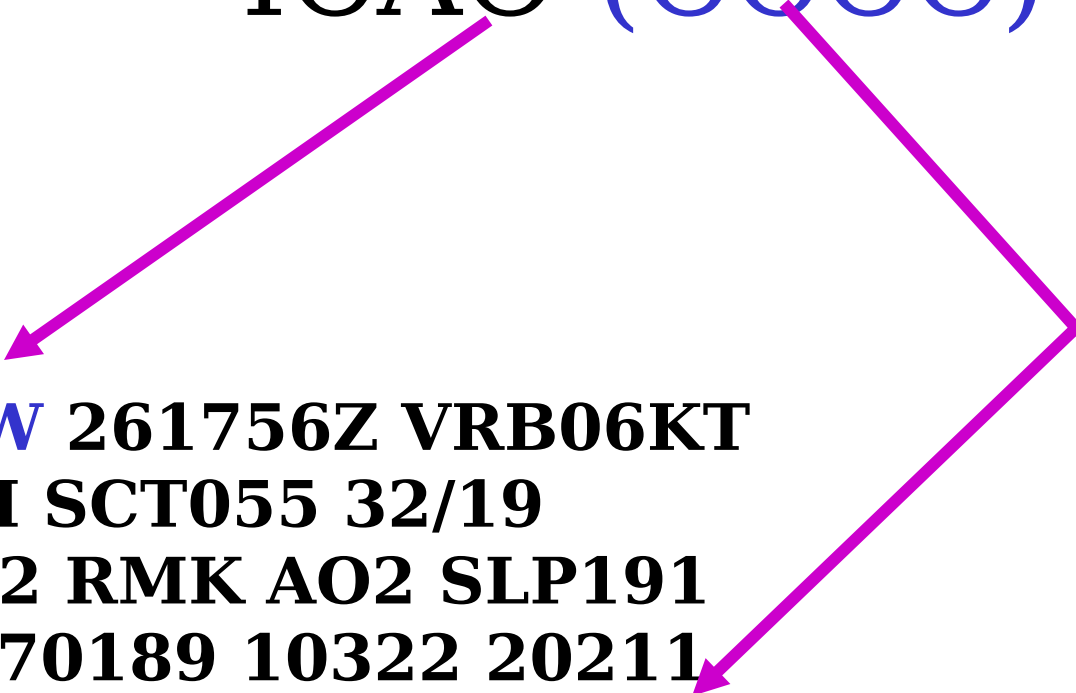
# US METAR/SPECI/LOCAL Code

METAR/SPECI/LOCAL CCCC YYGGggZ COR dddffGf<sub>m</sub>f<sub>m</sub>  
d<sub>n</sub>d<sub>n</sub>d<sub>n</sub>Vd<sub>x</sub>d<sub>x</sub>d<sub>x</sub> VVVVSM RD<sub>R</sub>D<sub>R</sub>/V<sub>R</sub>V<sub>R</sub>V<sub>R</sub>V<sub>R</sub>FT or  
RD<sub>R</sub>D<sub>R</sub>/V<sub>N</sub>V<sub>N</sub>V<sub>N</sub>V<sub>N</sub>VV<sub>X</sub>V<sub>X</sub>V<sub>X</sub>V<sub>X</sub>FT w'w' N<sub>S</sub>N<sub>S</sub>N<sub>S</sub>h<sub>S</sub>h<sub>S</sub>h<sub>S</sub>  
[or VVh<sub>S</sub>h<sub>S</sub>h<sub>S</sub> or SKC] T'T'/T'<sub>d</sub>T'<sub>d</sub>AP<sub>H</sub>P<sub>H</sub>P<sub>H</sub>P<sub>H</sub> RMK SLPppp  
6RRRR 7R<sub>24</sub>R<sub>24</sub>R<sub>24</sub>R<sub>24</sub> 4/sss 8/C<sub>L</sub>C<sub>M</sub>C<sub>H</sub> 9/C<sub>L</sub>C<sub>M</sub>C<sub>H</sub>  
1SnT<sub>X</sub>T<sub>X</sub>T<sub>X</sub> 2SnT<sub>n</sub>T<sub>n</sub>T<sub>n</sub> 5appp;

# Overseas METAR/SPECI/LOCAL Code

METAR/SPECI/LOCAL CCCC YYGGggZ COR dddffGf<sub>m</sub>f<sub>m</sub>  
d<sub>n</sub>d<sub>n</sub>d<sub>n</sub>Vd<sub>x</sub>d<sub>x</sub>d<sub>x</sub> VVVV RD<sub>R</sub>D<sub>R</sub>/V<sub>R</sub>V<sub>R</sub>V<sub>R</sub>V<sub>R</sub>FT or  
RD<sub>R</sub>D<sub>R</sub>/V<sub>N</sub>V<sub>N</sub>V<sub>N</sub>V<sub>N</sub>VV<sub>X</sub>V<sub>X</sub>V<sub>X</sub>V<sub>X</sub> w'w' N<sub>S</sub>N<sub>S</sub>N<sub>S</sub>h<sub>S</sub>h<sub>S</sub>h<sub>S</sub>  
[or VVh<sub>S</sub>h<sub>S</sub>h<sub>S</sub> or SKC] T'T'/T'<sub>d</sub>T'<sub>d</sub>AP<sub>H</sub>P<sub>H</sub>P<sub>H</sub>P<sub>H</sub> RMK;

ICAO (CCCC)



**KDFW 261756Z VRB06KT**  
**10SM SCT055 32/19**  
**A3012 RMK AO2 SLP191**  
**T03170189 10322 20211**  
**58008**

**KFFO 261755Z 15009G14KT**  
**060V180 7SM SCT045 28/16**  
**A3030 RMK SLP259 8/100**  
**9/400 56008;**

# METAR or SPECI

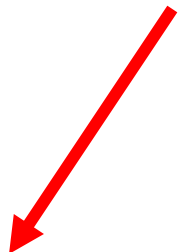
**KSSC 261655Z VRB04KT 7SM SCT030  
BKN070 29/21 A3028 RMK SLP252 8/170  
9/410;**

**METAR KTCM 161155Z VRB04KT 7  
FEW007 BKN011 OVC017 13/11 A3011  
RMK SLP197 ESTMD SLP 8/6// 9/8//  
52005**

**KSSC 261749Z 28009G25KT 250V310  
7SM -TSRA BKN040CB 25/17 A3027 RMK  
TS OHD MOV N PK WND 28025/1749;**

**SPECI PGUA 160650Z 22016G22KT 1SM  
-SHRA FEW010 BKN020 BKN040 OVC070  
27/25 A3050**

Date/Time (YYGGggZ)



**KDFW 261756Z VRB06KT 10SM SCT055  
32/19 A3012 RMK AO2 SLP191 T03170189  
10322 20211 58008**

# Winds (dddffGf<sub>m</sub>f<sub>m</sub>KT)

**KOFF 251955Z 17015G22KT 7SM FEW250 31/15  
A3002 RMK SLP156 8/008 9/001;**

- 170 is direction to nearest 10°
- 15 is wind speed in knots.
- G is for gust and 22 is the gust speed.
- Must have KT after the winds.

Visibility (VVVVSM) and  
RVR ( $RD_R D_R / V_R V_R V_R V_R FT$  or  
 $RD_R D_R / V_N V_N V_N V_N VV_X V_X V_X V_X FT$ )

KSSC 262055Z VRB05KT 7SM FEW040  
SCT100 BKN250 30/20 A3026 RMK SLP245 /  
574 9/214 55003  
KSSC 261210Z 06006KT 3/4SM BR OVC002  
21/20 A3027

EGUN 111610Z 21014G18KT 9999 FEW015  
OVC020 19/16 A3024 RMK WHT

LIYW 111555Z 25003KT 8000 HZ FEW050  
SCT200 23/16 A3035 RMK SLP276 8/108  
9/103 BLU

Module 1, Deco  
ding METAR

# Visibility (VVVV) and RVR

(RD<sub>R</sub>D<sub>R</sub>/V<sub>R</sub>V<sub>R</sub>V<sub>R</sub>V<sub>R</sub> or  
RD<sub>R</sub>D<sub>R</sub>/V<sub>N</sub>V<sub>N</sub>V<sub>N</sub>V<sub>N</sub>VV<sub>X</sub>V<sub>X</sub>V<sub>X</sub>V<sub>X</sub>)

**SPECI LIYW 110830Z 1200 R09/1200 BR  
FEW002 FEW050 SCT200 15/15 A3042 RMK  
VIS SE-SW 1000 TWR VIS 1000 AMB;**

**KXXX 261357Z 10005KT 3/4SM  
R18L/4000V5000FT -SN BKN005 OVC015  
01/M01 A3039 RMK TWR VIS 1/4 SLP302  
8/5// 9/8// WR//;**

# Present Weather (w'w')

**PGUA 191325Z 08013G21KT 7SM -SHRA  
SCT020 BKN300 25/24 A2993;**

**KDYS 271655Z 11008KT 3SM -DZ BR OVC005  
04/04 A3015 RMK TWR VIS 2 SLP216 8/6// 9/8//  
WR//;**

Sky Condition  
(N<sub>s</sub>N<sub>s</sub>N<sub>s</sub>h<sub>s</sub>h<sub>s</sub>h<sub>s</sub> or  
VVh<sub>s</sub>h<sub>s</sub>h<sub>s</sub> or SKC)

**PGUA 181455Z 08009KT 7SM FEW020 FEW050  
BKN300 25/24 A2993 RMK SLP118 8/808 9/205  
58003;**

**KLBF 192056Z VRB05KT 10SM SKC 12/M05  
A3012 RMK AO2 SLP211 T01221050 56024;**

**KPAM 192055Z 07013KT 7SM SCT010 OVC016  
14/13 A2991 RMK SLP130 60001 8/5// 9/8//  
56032 WR//;**

**KXXX 220355Z 00000KT 1/4SM FG VV005 24/24  
A3037 RMK TWR VIS 1/2 SLP300;**

# Temperature and Dew Point ( $T'/T'_d/T'_d/T'_d$ )

**KSSC 191055Z 05009KT 7SM SCT200 02/03  
A3032 RMK SLP268 ESTMD SLP 8/004 9/003;**

**These observations indicate that temperatures at 1100Z are above freezing (0°C) but the following hour the temperature/dew point is below freezing (0°C) and are prefaced by an “M” for minus.**

**KSSC 191155Z 05009KT 7SM SCT200  
M02/M03 A3032 RMK SLP268 ESTMD SLP  
8/004 9/003;**

Pressure ( $AP_H P_H P_H P_H$  and  
 $SLP_{ppp}$ )

**KLTS 261955Z 11008KT 7SM BKN015 OVC020  
03/00 A3034 RMK SLP290 8/5// 9/8// WR//;**

**KLTS 261755Z 13008KT 4SM BR BKN009  
OVC012 02/00 A3038 RMK SLP310 60003 8/5//  
9/8// 58010 WR//;**

# Remarks (RMK)

**KDYS 271156Z 06008KT 5SM -TSRA BR  
OVC004CB 03/03 A3017 RMK TS 8 SW MOV E  
OCNL LTGICCG S-SW SLP222 60001 70001  
8/9// 9/8// 53002 RCRNR;**

**KBIL 192056Z 21016G23KT 10SM BKN090  
17/M03 A2987 RMK AO2 SLP107 VIRGA SW-NE  
ACSL DSNT ALQDS T01671028 56012;**

# Remarks

**PGUA 181455Z 08009KT 7SM FEW020 FEW050  
BKN300 25/24 A2993 RMK SLP118 8/808 9/205  
58003;**

**KPAM 192055Z 07013KT 7SM SCT010 OVC016  
14/13 A2991 RMK SLP130 60001 8/5// 9/8//  
56032 WR//;**

# Conclusion

## Any Questions?